

▼ Shown from left to right: HXD-60 with CC-680, HXD-30 with CC-360



- High torque-to-weight ratio, slim nose radius and flat design
- High speed, high degree of rotation angle, double-acting
- Snap in, interchangeable cassettes, no tools required
- 360° swivel hose connection allows easier positioning in confined areas
- Lock-ring couplers are standard
- High repeatability, with accuracy $\pm 3\%$
- Strong unibody design, integrated reaction arm and few moving parts make wrenches durable and reliable
- Extensive range of metric and imperial hexagon cassettes and reducers
- Fully corrosion resistant material
- Drive unit and cassette come in storage case to protect from damage, water and dirt.

▼ The HXD-30 drive unit combined with cassette CC-360 is the best solution for this turbine application. The slim nose radius and swivel couplers allow easy access in all positions.



Aluminium Design, Low Profile and Slim Nose Radius



Select the Right Torque

Choose your Enerpac Torque Wrench using the untightening rule of thumb: Loosening torque equals about 250% of tightening torque.

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Hexagon Bolt and Nut Sizes

See the table for hexagon sizes of bolts, nuts and related thread diameters.

Page: 225



Nut Splitters

Remove rusted or corroded nuts easily with Enerpac Nut Splitters. Capacities up to 75 mm hexagon nut.

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▼ An Enerpac hydraulic wrench brings safety and economy to all kinds of maintenance jobs.



Double-Acting Hydraulic Torque Wrenches

▼ Shown from left to right: CC-360, HXD-30



TORQUE WRENCH SELECTION IN 2 STEPS:

- 1 DRIVE UNIT**
Select the HXD-Drive Unit using the quick selection chart below.
- 2 CASSETTE**
Select the appropriate CC-Cassette from the pages 210 and 211.

HXD Series



Maximum Torque at 800 bar:

24.210 Nm / 17.860 Ft.lbs

Hexagon Range:

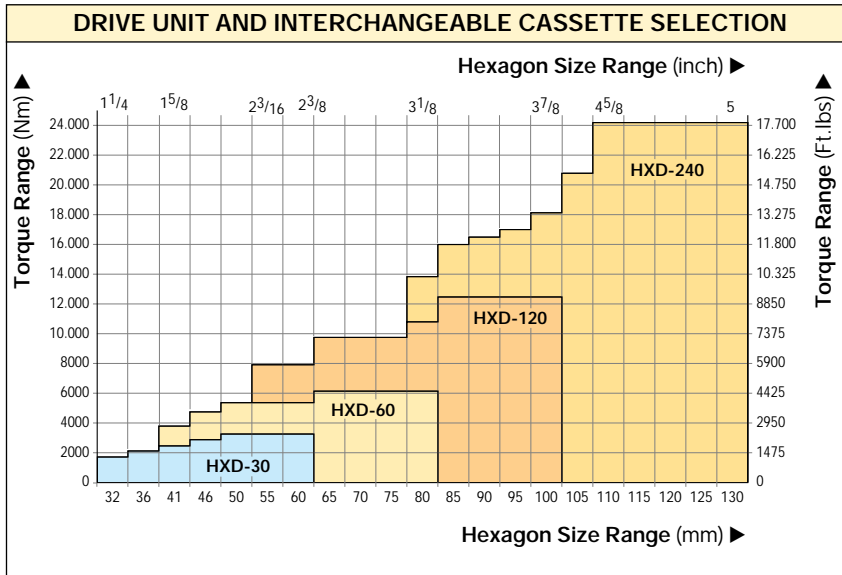
30-130 mm / 1¹/₄-5"

Nose Radius:

28,5 - 96,0 mm

Maximum Operating Pressure:

800 bar



Reducer Inserts

Expanded versatility with the full range of metric and imperial Reducer Inserts and Holding Rings.

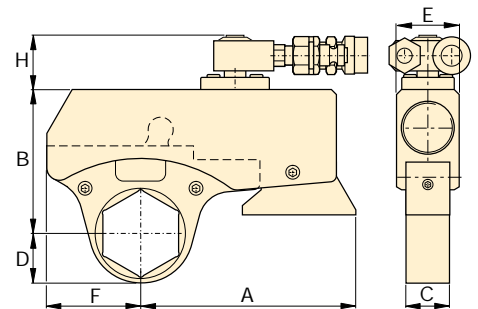
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Torque Wrench Pump Selection Matrix

For optimum speed and performance see the torque wrench and pump matrix.

Page: **212**



▼ QUICK SELECTION CHART

Hex Cassette & Reducer Range	Maximum Torque		Drive Unit * Model Number	Drive Unit and Cassette Dimensions (mm)							(kg)	
	at 800 bar (Nm)	at 11.600 psi (Ft.lbs)		A	B	C	D	E	F	H		
 Page: 210												
(mm)	(inch)											
32 - 60	1 ¹ / ₄ - 2 ³ / ₈	3290 2425	HXD-30	135	91 - 103	28	28,5 - 47,5	40	60	38	1,6	
41 - 80	1 ⁵ / ₈ - 3 ¹ / ₈	6190 4565	HXD-60	156	115 - 130	35	34,5 - 60,5	50	75	38	2,5	
55 - 100	2 ³ / ₁₆ - 3 ⁷ / ₈	12.500 9220	HXD-120	200	141 - 156	47	46,5 - 73,5	65	96	38	4,8	
65 - 130	2 ⁹ / ₁₆ - 5	24.210 17.860	HXD-240	259	182 - 202	56	62,0 - 96,0	82	125	50	8,2	

* With integrated reaction arm.

HXD-Series, Metric Cassettes and Inserts



The optional Reducer Insert must be secured in the Cassette with a Holding Ring.

Maximum Torque at 800 bar:

24.210 Nm

Hexagon Range:

30 - 130 mm

Maximum Operating Pressure:

800 bar

**CC
IN
HR
Series**



▼ SELECTION CHART

DRIVE UNIT	INTERCHANGEABLE CASSETTES, METRIC					OPTIONAL ADD-ON REDUCER INSERTS, METRIC						HOLDING RINGS
	Max. Torque ¹⁾ (Nm)	Hex. Size ²⁾ (mm)	Nose Radius D (mm)	Model Number	Weight (kg)	Hexagon Size (mm)	Model Number	Hexagon Size (mm)	Model Number	Hexagon Size (mm)	Model Number	
HXD-30 (3290 Nm)	1700	32	28,5	CC-332	0,6	-	-	-	-	-	-	-
	2100	36	31,5	CC-336	0,7	-	-	-	-	-	-	-
	2500	41	34,5	CC-341	0,7	41/36	IN3-4136	41/32	IN3-4132	41/30	IN3-4130	HR-41
	2890	46	38,5	CC-346	0,8	46/41	IN3-4641	46/36	IN3-4636	46/32	IN3-4632	HR-46
	3290	50	42,0	CC-350	0,9	50/46	IN3-5046	50/41	IN3-5041	50/36	IN3-5036	HR-50
		55	45,0	CC-355	1,0	55/50	IN3-5550	55/46	IN3-5546	55/41	IN3-5541	HR-55
	60	47,5	CC-360	1,1	60/55	IN3-6055	60/50	IN3-6050	60/46	IN3-6046	HR-60	
HXD-60 (6190 Nm)	3840	41	34,5	CC-641	1,2	41/36	IN6-4136	-	-	-	-	HR-41
	4805	46	39,5	CC-646	1,3	-	-	-	-	-	-	-
	5410	50	43,5	CC-650	1,4	50/46	IN6-5046	50/41	IN6-5041	50/36	IN6-5036	HR-50
		55	46,5	CC-655	1,5	55/50	IN6-5550	55/46	IN6-5546	55/41	IN6-5541	HR-55
		60	48,5	CC-660	1,6	60/55	IN6-6055	60/50	IN6-6050	60/46	IN6-6046	HR-60
	6190	65	52,5	CC-665	1,8	65/60	IN6-6560	65/55	IN6-6555	65/50	IN6-6550	HR-65
		70	55,5	CC-670	1,9	70/65	IN6-7065	70/60	IN6-7060	70/55	IN6-7055	HR-70
		75	57,5	CC-675	2,0	75/70	IN6-7570	75/65	IN6-7565	75/60	IN6-7560	HR-75
	80	60,5	CC-680	2,1	80/75	IN6-8075	80/70	IN6-8070	80/65	IN6-8065	HR-80	
HXD-120 (12500 Nm)	8000	55	46,5	CC-1255	2,6	55/50	IN12-5550	55/46	IN12-5546	55/41	IN12-5541	HR-55
		60	48,5	CC-1260	2,7	60/55	IN12-6055	60/50	IN12-6050	60/46	IN12-6046	HR-60
	9800	65	52,5	CC-1265	2,7	65/60	IN12-6560	65/55	IN12-6555	65/50	IN12-6550	HR-65
		70	55,5	CC-1270	2,8	70/65	IN12-7065	70/60	IN12-7060	70/55	IN12-7055	HR-70
		75	57,5	CC-1275	2,9	75/70	IN12-7570	75/65	IN12-7565	75/60	IN12-7560	HR-75
		-	-	-	-	-	-	-	-	-	-	-
	10.860	80	60,5	CC-1280	3,0	80/75	IN12-8075	80/70	IN12-8070	80/65	IN12-8065	HR-80
	12.500	85	64,5	CC-1285	3,5	85/80	IN12-8580	85/75	IN12-8575	85/70	IN12-8570	HR-85
		90	67,5	CC-1290	3,6	90/85	IN12-9085	90/80	IN12-9080	90/75	IN12-9075	HR-90
		95	70,5	CC-1295	3,7	95/90	IN12-9590	95/85	IN12-9585	95/80	IN12-9580	HR-95
100		73,5	CC-12100	3,8	100/95	IN12-10095	100/90	IN12-10090	100/85	IN12-10085	HR-100	
HXD-240 (24.210 Nm)	13.890	80	62,0	CC-2480	5,1	80/75	IN24-8075	80/70	IN24-8070	80/65	IN24-8065	HR-80
	16.030	85	66,0	CC-2485	5,2	85/80	IN24-8580	85/75	IN24-8575	85/70	IN24-8570	HR-85
	16.560	90	69,0	CC-2490	5,2	90/85	IN24-9085	90/80	IN24-9080	90/75	IN24-9075	HR-90
	17.100	95	72,0	CC-2495	5,4	95/90	IN24-9590	95/85	IN24-9585	95/80	IN24-9580	HR-95
	18.170	100	76,0	CC-24100	5,6	100/95	IN24-10095	100/90	IN24-10090	100/85	IN24-10085	HR-100
	20.840	105	80,0	CC-24105	5,7	105/100	IN24-105100	105/95	IN24-10595	105/90	IN24-10590	HR-105
		110	84,0	CC-24110	5,8	110/105	IN24-110105	110/100	IN24-110100	110/95	IN24-11095	HR-110
		115	87,0	CC-24115	7,1	115/110	IN24-115110	115/105	IN24-115105	115/100	IN24-115100	HR-115
		120	90,0	CC-24120	7,3	120/115	IN24-120115	120/110	IN24-120110	120/105	IN24-120105	HR-120
		125	93,0	CC-24125	7,3	125/120	IN24-125120	125/115	IN24-125115	125/110	IN24-125110	HR-125
		130	96,0	CC-24130	7,4	130/125	IN24-130125	130/120	IN24-130120	130/115	IN24-130115	HR-130

¹⁾ Determine maximum torque according to the bolt (nut) size and grade.

²⁾ See the table of hexagon bolt and nut sizes and related thread diameters on page 225.

HXD-Series, Imperial Cassettes and Reducer Inserts



The optional Reducer Insert must be secured in the Cassette with a Holding Ring.

Maximum Torque at 800 bar:

24.210 Nm (17860 Ft.lbs)

Hexagon Range:

1¹/₄ - 5 inch

Maximum Operating Pressure:

800 bar

**CC
IN
HR
Series**



▼ SELECTION CHART

DRIVE UNIT	INTERCHANGEABLE CASSETTES, IMPERIAL					OPTIONAL ADD-ON REDUCER INSERTS, IMPERIAL				HOLDING RINGS
	Max. Torque ¹⁾ (Nm)	Hex. Size ²⁾ (inch)	Nose Radius D (mm)	Model Number	Weight (kg)	Hexagon Size (inch)	Model Number	Hexagon Size (inch)	Model Number	Model Number
HXD-30 (3290 Nm)	1700	1 ¹ / ₄ "	28,5	CC-3125	0,6	-	-	-	-	-
	2100	1 ⁷ / ₁₆ "	31,5	CC-3144	0,7	1 ⁷ / ₁₆ " - 1 ¹ / ₄ "	IN3144-125	-	-	HR-36
	2500	1 ⁵ / ₈ "	34,5	CC-3163	0,7	1 ⁵ / ₈ " - 1 ⁷ / ₁₆ "	IN3163-144	1 ⁵ / ₈ " - 1 ¹ / ₄ "	IN3163-125	HR-41
	2890	1 ¹³ / ₁₆ "	38,5	CC-3181	0,8	1 ¹³ / ₁₆ " - 1 ⁵ / ₈ "	IN3181-163	1 ¹³ / ₁₆ " - 1 ⁷ / ₁₆ "	IN3181-144	HR-46
		2"	42,0	CC-3200	0,9	2" - 1 ¹³ / ₁₆ "	IN3200-181	2" - 1 ⁵ / ₈ "	IN3200-163	HR-50
		2 ³ / ₁₆ "	45,0	CC-3219	1,0	2 ³ / ₁₆ " - 2"	IN3219-200	2 ³ / ₁₆ " - 1 ¹³ / ₁₆ "	IN3219-181	HR-55
3290	2 ³ / ₈ "	47,5	CC-3238	1,1	2 ³ / ₈ " - 2 ³ / ₁₆ "	IN3238-219	2 ³ / ₈ " - 2"	IN3238-200	HR-60	
HXD-60 (6190 Nm)	3840	1 ⁵ / ₈ "	34,5	CC-6163	1,2	-	-	-	-	-
	4805	1 ¹³ / ₁₆ "	39,5	CC-6181	1,3	1 ¹³ / ₁₆ " - 1 ⁵ / ₈ "	IN6181-163	-	-	HR-46
		2"	43,5	CC-6200	1,4	2" - 1 ¹³ / ₁₆ "	IN6200-181	2" - 1 ⁵ / ₈ "	IN6200-163	HR-50
	5410	2 ³ / ₁₆ "	46,5	CC-6219	1,5	2 ³ / ₁₆ " - 2"	IN6219-200	2 ³ / ₁₆ " - 1 ¹³ / ₁₆ "	IN6219-181	HR-55
		2 ³ / ₈ "	48,5	CC-6238	1,6	2 ³ / ₈ " - 2 ³ / ₁₆ "	IN6238-219	2 ³ / ₈ " - 2"	IN6238-200	HR-60
	6190	2 ⁹ / ₁₆ "	52,5	CC-6256	1,8	2 ⁹ / ₁₆ " - 2 ³ / ₈ "	IN6256-238	2 ⁹ / ₁₆ " - 2 ³ / ₁₆ "	IN6256-219	HR-65
		2 ³ / ₄ "	55,5	CC-6275	1,9	2 ³ / ₄ " - 2 ⁹ / ₁₆ "	IN6275-256	2 ³ / ₄ " - 2 ³ / ₈ "	IN6275-238	HR-70
		2 ¹⁵ / ₁₆ "	57,5	CC-6293	2,0	2 ¹⁵ / ₁₆ " - 2 ³ / ₄ "	IN6293-275	2 ¹⁵ / ₁₆ " - 2 ⁹ / ₁₆ "	IN6293-256	HR-75
	6190	3 ¹ / ₈ "	60,5	CC-6313	2,1	3 ¹ / ₈ " - 2 ¹⁵ / ₁₆ "	IN6313-293	3 ¹ / ₈ " - 2 ³ / ₄ "	IN6313-275	HR-80
HXD-120 (12500 Nm)	8000	2 ³ / ₁₆ "	46,5	CC-12219	2,6	2 ³ / ₁₆ " - 2"	IN12219-200	2 ³ / ₁₆ " - 1 ¹³ / ₁₆ "	IN12219-181	HR-55
		2 ³ / ₈ "	48,5	CC-12238	2,7	2 ³ / ₈ " - 2 ³ / ₁₆ "	IN12238-219	2 ³ / ₈ " - 2"	IN12238-200	HR-60
	9800	2 ⁹ / ₁₆ "	52,5	CC-12256	2,7	2 ⁹ / ₁₆ " - 2 ³ / ₈ "	IN12256-238	2 ⁹ / ₁₆ " - 2 ³ / ₁₆ "	IN12256-219	HR-65
		2 ³ / ₄ "	55,5	CC-12275	2,8	2 ³ / ₄ " - 2 ⁹ / ₁₆ "	IN12275-256	2 ³ / ₄ " - 2 ³ / ₈ "	IN12275-238	HR-70
		2 ¹⁵ / ₁₆ "	57,5	CC-12293	2,9	2 ¹⁵ / ₁₆ " - 2 ³ / ₄ "	IN12293-275	2 ¹⁵ / ₁₆ " - 2 ⁹ / ₁₆ "	IN12293-256	HR-75
	10.860	3"	57,5	CC-12300	2,9	3" - 2 ³ / ₄ "	IN12300-275	3" - 2 ⁹ / ₁₆ "	IN12300-256	HR-75
		3 ¹ / ₈ "	60,5	CC-12313	3,0	3 ¹ / ₈ " - 2 ¹⁵ / ₁₆ "	IN12313-293	3 ¹ / ₈ " - 2 ³ / ₄ "	IN12313-275	HR-80
	12.500	3 ³ / ₈ "	64,5	CC-12338	3,5	3 ³ / ₈ " - 3"	IN12338-300	3 ³ / ₈ " - 2 ¹⁵ / ₁₆ "	IN12338-293	HR-85
		3 ¹ / ₂ "	67,5	CC-12350	3,6	3 ¹ / ₂ " - 3 ¹ / ₈ "	IN12350-313	3 ¹ / ₂ " - 3"	IN12350-300	HR-90
		3 ³ / ₄ "	70,5	CC-12375	3,7	3 ³ / ₄ " - 3 ¹ / ₂ "	IN12375-350	3 ³ / ₄ " - 3 ³ / ₈ "	IN12375-338	HR-95
3 ⁷ / ₈ "		73,5	CC-12388	3,8	3 ⁷ / ₈ " - 3 ¹ / ₂ "	IN12388-350	3 ⁷ / ₈ " - 3 ³ / ₈ "	IN12388-338	HR-100	
HXD-240 (24.210 Nm)	14.000	3 ¹ / ₈ "	62,0	CC-24313 ³⁾	5,1	3 ¹ / ₈ " - 2 ¹⁵ / ₁₆ "	IN24313-293	3 ¹ / ₈ " - 2 ³ / ₄ "	IN24313-275 ³⁾	HR-80
	15.840	3 ³ / ₈ "	66,0	CC-24338	5,2	3 ³ / ₈ " - 3 ¹ / ₈ "	IN24338-313	3 ³ / ₈ " - 3"	IN24338-300	HR-85
	16.570	3 ¹ / ₂ "	69,0	CC-24350	5,2	3 ¹ / ₂ " - 3 ¹ / ₈ "	IN24350-313	3 ¹ / ₂ " - 3"	IN24350-300	HR-90
	17.320	3 ³ / ₄ "	72,0	CC-24375	5,4	3 ³ / ₄ " - 3 ¹ / ₂ "	IN24375-350	3 ³ / ₄ " - 3 ³ / ₈ "	IN24375-338	HR-95
	18.050	3 ⁷ / ₈ "	76,0	CC-24388 ⁴⁾	5,6	3 ⁷ / ₈ " - 3 ¹ / ₂ "	IN24388-350	3 ⁷ / ₈ " - 3 ³ / ₈ "	IN24388-338 ⁴⁾	HR-100
	21.000	4 ¹ / ₈ "	80,0	CC-24413	5,7	4 ¹ / ₈ " - 3 ⁷ / ₈ "	IN24413-388	4 ¹ / ₈ " - 3 ³ / ₄ "	IN24413-375	HR-105
		4 ¹ / ₄ "	84,0	CC-24425	6,8	4 ¹ / ₄ " - 3 ⁷ / ₈ "	IN24425-388	4 ¹ / ₄ " - 3 ³ / ₄ "	IN24425-375	HR-110
	24.210	4 ⁵ / ₈ "	90,0	CC-24463	7,3	4 ⁵ / ₈ " - 4 ¹ / ₄ "	IN24463-425	4 ⁵ / ₈ " - 4 ¹ / ₈ "	IN24463-413	HR-120
		5"	96,0	CC-24500	7,4	5" - 4 ⁵ / ₈ "	IN24500-463	5" - 4 ¹ / ₄ "	IN24500-425	HR-130
	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	

¹⁾ Determine maximum torque according to the bolt (nut) size and grade.

²⁾ See the table of hexagon bolt and nut sizes and related thread diameters on page 225.

³⁾ Additional imperial Reducer Insert is 3¹/₈" - 2⁹/₁₆" IN24313-256 fits CC-24313 Cassette, use HR-80 Holding Ring.

⁴⁾ Additional imperial Reducer Insert is 3³/₄" - 2⁹/₁₆" IN24375-313 fits CC-24388 Cassette, use HR-100 Holding Ring.